



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,630	01/24/2004	Russell Dennis	RD9-03-001	7726
7590	04/04/2006		EXAMINER	
Laurence R. Letson P.O. Box 910567 Lexington, KY 40591			FERGUSON, MICHAEL P	
			ART UNIT	PAPER NUMBER
			3679	
			DATE MAILED: 04/04/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/763,630	DENNIS, RUSSELL	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 07 March 2006.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-13 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-13 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 24 January 2004 is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

Applicant's submission filed on March 7, 2006 has been entered.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over House et al. (US 6,648,305) in view of Reiff (US 6,848,678).

As to claims 1 and 8, House et al. disclose a device for tensioning a flexible member relative to a structure comprising:

a body 98 for engaging a support structure;  
the body supporting a tensioner 94,96, the tensioner rotationally supported by the body;  
the tensioner comprising an end;

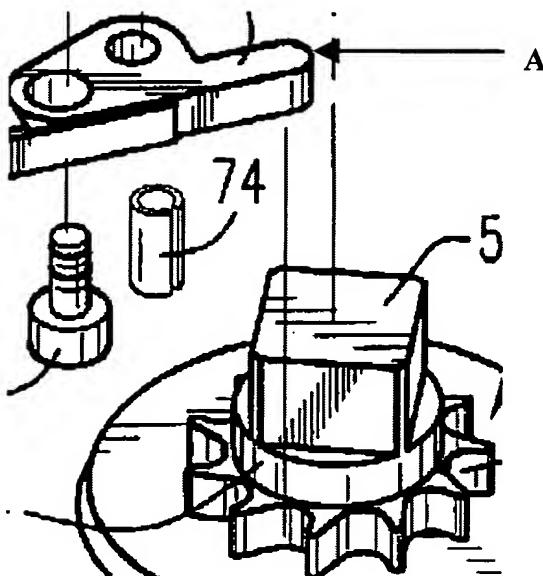
a pawl 70 supported on the body and rotationally movable to engage one end thereof with the tensioner;

a head 58,60 formed on the end of the tensioner for rotation thereof, the pawl having an engaging end A (having a tangential end surface A) perpendicular to the pawl and engaging the surface of a portion of the tensioner, thereby blocking rotational movement of the tensioner;

wherein the body supports a pair of tensioners 94,96, the tensioners rotationally supported by the body;

a pair of pawls 70 each supported on the body and rotationally moveable to engage one end thereof with one of the tensioners, the pawl having an engaging end (having a tangential end surface A) perpendicular to the pawl and engaging the surface of a portion of the tensioner thereby blocking movement of the tensioner,

each of the tensioners having a head 58,60 formed on the end thereof (Figures 4 and 6).



House et al. disclose a device comprising a head formed on the end of each tensioner, instead of a depression formed within and surrounded by the one end of each tensioner for rotation thereof

Reiff teaches a device comprising a depression **168** formed within and surrounded by an end of a tensioner **150** for rotation thereof (Figures 8 and 11). Inasmuch as the references disclose a head formed on the end of a tensioner, and a depression formed within the end of a tensioner as art recognized equivalents, it would have been obvious to one of ordinary skill in the exercise art to substitute one for the other. In re Fout, 675 F.2d 297, 301, 213 USPQ 532, 536 (CCPA 1982).

As to claim 2, House et al. disclose a device wherein the pawl **70** is biased toward a position wherein the pawl engaging end **A** is blockingly engaged with the tensioner **94,96** (Figure 4).

As to claim 3, House et al. disclose a device wherein the body **98** is unitary (body **98** functions as a single body unit, thus being unitary).

As to claim 4, House et al. disclose a device wherein the tensioner **94,96** comprises a substantially cylindrical structure having an opening **46, 36,38,40** substantially parallel to the axis of the cylinder for receiving an end of a flexible member (Figure 4).

As to claim 5, House et al. disclose a device wherein the opening **46,36,38,40** comprises a widening **36,38,40** (grooves **36,38,40** define an annular widening of opening **46,36,38,40**) of the opening to accommodate thickened portions of the flexible member (Figure 4).

As to claim 6, House et al. disclose a device wherein the widening **36,38,40** of the opening **46,36,38,40** is located proximate each end of the opening and at mid-opening (Figure 4).

As to claim 7, House et al. disclose a device wherein the bias is provided by a tension spring **78** connected to the pawl **70** (Figure 4, column 4 lines 37-40).

As to claim 9, House et al. disclose a device wherein the body **98** is unitary (body **98** functions as a single unit, thus being unitary).

As to claim 10, House et al. disclose a device wherein each tensioner **94,96** comprises a substantially cylindrical structure having an opening **46,36,38,40** substantially parallel to the axis of the cylinder for receiving an end of a flexible member (Figure 4).

As to claim 11, House et al. disclose a device wherein the opening **46,36,38,40** comprises a widening **36,38,40** (grooves **36,38,40** define an annular widening of opening **46,36,38,40**) of the opening to accommodate thickened portions of the flexible member (Figure 4).

As to claim 12, House et al. disclose a device wherein the widening **36,38,40** of the opening **46,36,38,40** is located proximate each end of the opening and at mid-opening (Figure 4).

As to claim 13, House et al. disclose a device wherein the bias is provided by a tension spring **78** connected to the pawls **70** (Figure 4, column 4 lines 37-40).

***Response to Arguments***

4. Applicant's arguments filed July 11, 2005 have been fully considered but they are not persuasive.

As to claims 1 and 8, Attorney argues that:

House et al. do not disclose a device comprising wherein the pawl has an engaging end *perpendicular to the pawl and engaging the surface of a portion of the tensioner.*

Examiner disagrees. As to claims 1 and 8, House et al. disclose a device wherein the pawl **70** has an engaging end **A** (having a tangential end surface **A**) perpendicular to the pawl and engaging the surface of a portion of the tensioner (Figures 4 and 6).

As to claims 3 and 9, Attorney argues that:

House et al. do not disclose a device wherein the body is *unitary*.

Examiner disagrees. As to claims 3 and 9, House et al. disclose a device wherein the body **98** is unitary (body **98** functions as a single unit, thus being unitary).

As to claim 5 and 11, Attorney argues that:

House et al. do not disclose a device wherein the opening comprises a *widening of the opening* to accommodate thickened portions of the flexible member.

Examiner disagrees. As to claims 5 and 11, House et al. disclose a device wherein the opening **46,36,38,40** comprises a widening **36,38,40** (grooves

**36,38,40** define an annular widening of opening **46,36,38,40**) of the opening to accommodate thickened portions of the flexible member (Figure 4).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Ferguson whose telephone number is (571)272-7081. The examiner can normally be reached on M-F (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (571)272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
MPF  
03/30/06



DANIEL P. STODOLA  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3600